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TITLE : PHENOL RESIN LAMINATE AND ITS MANUFACTURE

ABSTRACT : PURPOSE: To obtain the phenol resin laminate excellent in punching workability, water resistance, electric property and mechanical strength by a method in which base material is impregnated with specified modified phenol resin of resol type and is dried and laminated, and then it is heated and pressurized.

CONSTITUTION: A phenol is reacted with a long chain-dialdehyde having aldehyde radical at the terminals of both molecules shown by  $\text{OHC-(CH}_2\text{n-CHO}$  (n is an integer of 5-18) at the rate of 0.05-0.1mol. of the long chain-aldehyde per one mol. of the hydroxyl of the phenol group under the existence of acid catalytic substance. After a part or the majority of unreacted phenol group has been removed, the materials are mutually reacted under the existence of alkaline catalytic substance, thereby synthesizing the modified phenol resin of resol type. Base material is impregnated with the solution of the modified phenol resin of resol type, and then is dried and laminated, and further is heated and pressurized, thereby producing phenol resin-laminate. As the definite example of the base material, paper, glass cloth, glass unwoven cloth and synthetic fiber cloth, etc., are used.

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